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Authored by a well-known expert in the field of nonequilibrium statistical physics, this book is a coherent presentation of the subject suitable for masters and PhD students, as well as postdocs in physics and related disciplines. Starting from a general discussion of irreversibility and entropy, the method of nonequilibrium statistical operator is presented as a general concept.

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Nonequilibrium Statistical Mechanics

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Statistical Mechanics - 4th Edition - Elsevier

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Statistical Mechanics | SpringerLink

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Statistical Mechanics on Apple Books

The new edition contains a new chapter on stochastic approaches to include the statistical thermodynamics, mesoscopic nonequilibrium thermodynamics, fluctuation theory, information theory, and modeling the coupled biochemical systems in thermodynamic analysis. This new addition also comes with more examples and practice problems.

Nonequilibrium Thermodynamics | ScienceDirect

This is an attempt to deliver, within a couple of hours, a few key-concepts of non- equilibrium statistical mechanics. The material covered by the notes is sometimes a bit wider in scope and often more detailed than a presentation can be. The goal is to develop some ideas of contemporary research.

by Gunnar Pruessner

Non-equilibrium thermodynamics is a branch of the thermodynamics that deals with physical systems that are not in thermodynamic equilibrium but can be described in terms of variables that represent an extrapolation of the variables used to specify the system in thermodynamic equilibrium. Non-equilibrium thermodynamics is concerned with transport processes and with the rates of chemical reactions. It relies on what may be thought of as more or less nearness to thermodynamic equilibrium. Almost all sy

Non-equilibrium thermodynamics - Wikipedia

Description. Statistical Mechanics of Nonequilibrium Liquids deals with theoretical rheology. The book discusses nonlinear response of systems and outlines the statistical mechanical theory. In discussing the framework of nonequilibrium statistical mechanics, the book explains the derivation of a nonequilibrium analogue of the Gibbsian basis for equilibrium statistical mechanics.

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Statistical Mechanics | Franz Schwabl | Springer

About this Textbook. About this Textbook. This volume of Statistical Physics constitutes the second part of Statistical Physics (Springer Series in Solid-State Science, Vols. 30, 31) and is devoted to nonequilibrium theories of statistical mechanics. We start with an intro duction to the stochastic treatment of Brownian motion and then proceed to general problems involved in deriving a physical process from an underlying more basic process.

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